

**AMENDMENT UNDER 37 C.F.R. § 1.116**  
**U. S. Application No. 09/116,589**

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

Claims 1-27 (canceled).

28. (currently amended): A method of fabricating a hologram-recorded medium which is an imagewise or other pattern-recorded medium comprising a collection of pixels, and in which any one of a plurality of volume type diffraction gratings comprising volume holograms and differing from each other is assigned to at least a part of said pixels, the method comprising:

stacking a photosensitive material, capable of recording a volume hologram, on a dichroic filter comprising a multilayer interference film, said dichroic filter being stacked on a first reflection type relief hologram, and

striking reconstructing illumination light of given wavelength on said first reflection type relief hologram through said photosensitive material and said dichroic filter, so that first interference fringes produced by interference of light diffracted from said first reflection type relief hologram and the incident light are recorded in said photosensitive material and assigned to a first part of the pixels,

replacing said first reflection type relief hologram with a second reflection type relief hologram and striking reconstructing illumination light of the given wavelength on said second reflection type relief hologram through said photosensitive material and said dichroic filter, so that second interference fringes produced by interference of light diffracted from said second

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reflection type relief hologram and the incident light are recorded in said photosensitive material  
~~and assigned to a second part of the pixels,~~

wherein each of said first and second reflection type relief holograms comprises a computer generated hologram (CGH).

29. (currently amended): A method of fabricating a hologram-recorded medium which is an imagewise or other pattern-recorded medium comprising a collection of pixels, and in which any one of a plurality of volume type diffraction gratings comprising volume holograms and differing from each other is assigned to at least a part of said pixels, the method comprising:

stacking a photosensitive material, capable of recording a volume hologram, on a dichroic filter comprising a multilayer interference film, said dichroic filter being stacked on a first transmission type hologram,

striking reconstructing illumination light of given wavelength on a first side of said first transmission type hologram that is opposite a second side of said first transmission type hologram which is facing said photosensitive material, so that first interference fringes produced by interference of light diffracted from said first transmission type hologram and reference light incident on said photosensitive material are recorded in said photosensitive material ~~and assigned to a first part of the pixels,~~

replacing said first transmission type hologram with a second transmission type hologram and striking reconstructing illumination light of the given wavelength on said second transmission type hologram through said photosensitive material, so that second interference fringes produced by interference of light diffracted from said second transmission type hologram

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and the incident light are recorded in said photosensitive material ~~and assigned to a second part of the pixels,~~

wherein each of said first and second transmission type holograms comprises a computer generated hologram (CGH).

Claims 30-63 (canceled).

64. (previously presented): The method of fabricating a hologram-recorded medium of claim 28, wherein the computer generated hologram is fabricated using an electron beam.

65. (new): The method of fabricating a hologram-recorded medium of claim 28, wherein the dichroic filter is replaced with another dichroic filter when the first transmission type hologram is replaced with the second transmission type hologram.

66. (new): The method of fabricating a hologram-recorded medium of claim 29, wherein the dichroic filter is replaced with another dichroic filter when the first transmission type hologram is replaced with the second transmission type hologram.